PTO/SB/05 (06-03) Approved for use through 07/31/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Attorney Docket No. 466992000900 UTILITY First Inventor **Chong-Sheng YUAN** PATENT APPLICATION DETECTION OF POTASSIUM IONS USING ION-TRANSMITTAL SENSITIVE ENZYMES (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. EV961005981US MS Patent Application APPLICATION ELEMENTS Commissioner for Patents ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 CD-ROM or CD-R in duplicate, large table or Fee Transmittal Form (e.g., PTO/SB/17) (2 pages) 7. (Submit an original, and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. Nucleotide and/or Amino Acid Sequence Submission 8 See 37 CFR 1.27. (if applicable, all necessary) [Total Pages 3. Х Specification 20 Computer Readable Form (CRF) (preferred arrangement set forth below)
- Descriptive title of the invention b. Specification Sequence Listing on: Cross Reference to Related Applications CD-ROM or CD-R (2 copies); or Paper - Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, c. Statements verifying identity of above copies or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention ACCOMPANYING APPLICATIONS PARTS - Brief Description of the Drawings (if filed) 9. Assignment Papers (cover sheet & document(s)) - Detailed Description 37 CFR 3.73(b) Statement Power of 10. Abstract of the Disclosure (when there is an assignee) 4. X Drawing(s) (35 U.S.C. 113) (Total Sheets 11 English Translation Document (if applicable) Information Disclosure Copies of IDS 5. Oath or Declaration [Total Sheets 12. Statement (IDS)/PTO-1449 Newly executed (original or copy) 13. **Preliminary Amendment** Copy from a prior application (37 CFR 1.63(d)) Return Receipt Postcard (MPEP 503) 14. x b. (for continuation/divisional with Box 18 completed) (Should be specifically itemized) Certified Copy of Priority Document(s) 15. DELETION OF INVENTOR(S) (if foreign priority is claimed) Signed statement attached deleting Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 16. Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Application Data Sheet. See 37 CFR 1.76 (2 pages) 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 25225 OR Correspondence address below Х Customer Number: Name Address Zip Code City State Country Telephone Name (Print/Type) Laurie/L. Hill Registration No. (Attorney/Agent) 51.804 September 19, 2003 Date Signature

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV961005981US, in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 9-19-03 Signature: (Michael Boyd)

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL Not Yet Assigned Application Number Filing Date Concurrently Herewith for FY 2003 First Named Inventor Chong-Sheng YUAN Effective 01/01/2003, Patent fees are subject to annual revision. Examiner Name Not Yet Assigned Applicant claims small entity status. See 37 CFR 1.27 Not Yet Assigned Art Unit TOTAL AMOUNT OF PAYMENT (\$) 858.00 Attomey Docket No. 466992000900 METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued) Money Check None 3. ADDITIONAL FEES Х Deposit Account Large Entity Small Entity Deposit 03-1952 Account Fee Fee Fee Description Number Code (\$) Code (\$) Fee Paid Deposit 1051 130 2051 65 Surcharge - late filing fee or oath Morrison & Foerster LLP Surcharge - late provisional filing fee or cover 1052 50 2052 25 The Director is hereby authorized to: (check all that apply) X Charge fee(s) indicated below X Credit any overpayments 1053 130 1053 130 Non-English specification Charge any additional fee(s) during the pendency of this 1812 2,520 1812 2.520 For filing a request for ex parte reexamination application Requesting publication of SIR prior to 1804 920\* 1804 9201 Charge fee(s) indicated below, except for the filing fee Examiner action Requesting publication of SIR after to the above-identified deposit account. 1805 1805 1.840 1.8401 Examiner action **FEE CALCULATION** 1251 110 2251 55 Extension for reply within first month 1. BASIC FILING FEE 1252 410 2252 205 Extension for reply within second month Large Entity **Small Entity** 1253 930 2253 465 Extension for reply within third month Fee Fee Fee Fee Fee Description Fee Paid 1254 1,450 2254 Extension for reply within fourth month (\$) (\$) Code 1001 750 2001 Utility filing fee 750.00 375 1255 1,970 2255 985 Extension for reply within fifth month 1002 330 2002 165 Design filing fee 1401 320 2401 160 Notice of Appeal 1003 520 2003 260 Plant filing fee 1402 320 2402 160 Filing a brief in support of an appeal 1004 750 2004 375 Reissue filing fee 1403 280 2403 Request for oral hearing 1005 2005 Provisional filing fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - unavoidable SUBTOTAL (1) 1453 1,300 2453 650 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 1501 1,300 2501 650 Utility issue fee (or reissue) Extra Fee from 1502 470 2502 235 Design issue fee Claims Fee Paid Total Claims 26 -20\*\* = 6 18.00 108.00 1503 630 2503 315 Plant issue fee Independent 1460 130 1460 3 -3\* 0.00 130 Petitions to the Commissioner Multiple Dependent 1807 50 1807 Processing fee under 37 CFR 1.17(q) 1806 180 1806 180 Submission of Information Disclosure Stmt Large Entity Smatt Entity Recording each patent assignment per Fee Description 8021 40 8021 40 Code (\$) Code (\$) property (times number of properties) 1202 18 2202 Filing a submission after final rejection Claims in excess of 20 1809 750 2809 375 (37 ČFR 1.129(a)) 1201 2201 84 42 Independent claims in excess of 3 For each additional invention to be examined (37CFR 1.129(b)) 1810 750 2810 375 1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 Reissue independent claims 1801 750 2801 375 Request for Continued Examination (RCE) over original patent Request for expedited examination 1802 900 1802 900 1205 18 2205 9 Reissue claims in excess of 20 of a design application and over original patent Other fee (specify) SUBTOTAL (2) (\$) \*Reduced by Basic Filing Fee Paid 108.00 SUBTOTAL (3) (\$) 0.00 \*\*or number previously paid, if greater; For Reissues, see above SUBMITTED BY Complete (if applicable) Registration No. Name (Print/Type) Laurie L. 51,804 Telephone (858) 720-7955 Signature Date September 19, 2003